CW#63: Determining Similarity

Geometry

Due: Wednesday, Jan 6th

***Classroom Copy- Do not write on!***

You will be able to determine if figures are similar.

|  |
| --- |
| **Example 1:**  Are these two triangles similar?    **Copy into your notebooks:**  To be similar, \_\_\_ things must be true.   1. All corresponding \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ must be congruent. 2. Corresponding side lengths must be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_, which means that the \_\_\_\_\_\_\_\_\_\_\_\_\_ of   corresponding sides must be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Once you know one of these, you know that the other one is automatically true! |
| **Copy into your notebooks:**  Triangles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ if they share \_\_\_\_\_\_\_\_\_\_\_\_ of the same angles.  This is because if they share \_\_\_\_ angles, they must have the same \_\_\_\_\_\_ angle, because the sum of the interior angles of any triangle is \_\_\_\_\_\_\_\_\_\_. |

**EXAMPLE 2**

Are each pair of figures similar? State the reason(s) why or why not.

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Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You will be able to determine if figures are similar.

**Bronze:**

Determine if each pair of figures is similar or not. State the reason(s) why or why not.

|  |  |
| --- | --- |
| 1) | 2) |
| 3) | 4) |
| 5) | 6) |
| 7) | 8) |

**Silver:**

|  |
| --- |
| 10) Determine if the triangles are similar or not. State the reason(s) why or why not. |
| 11) |
| 12) ∆ABC is similar to ∆XYZ.    What is the measure of X? On the lines below, explain how you determined your answer.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Gold:**

13)



Is triangle AKC similar to triangle KDB? Explain your reasoning below.

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